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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/630,738	07/31/2003	Mi Sook Nam	8733.444.10-US	1411
30827	7590 02/16/2006		EXAM	INER
MCKENNA LONG & ALDRIDGE LLP			HON, SOW FUN	
1900 K STRE WASHINGT	EET, NW ON, DC 20006		ART UNIT	PAPER NUMBER
			1772	

DATE MAILED: 02/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/630,738	NAM, MI SOOK				
Office Action Summary	Examiner	Art Unit				
	Sow-Fun Hon	1772				
The MAILING DATE of this communication a						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re- tiod will apply and will expire SIX (6) MON tute, cause the application to become AB	CATION. Peply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 16	<u> December 2005</u> .					
2a)⊠ This action is FINAL . 2b)□ T	This action is FINAL . 2b) This action is non-final.					
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closed in accordance with the practice unde	er <i>Ex par</i> te <i>Quayl</i> e, 1935 C.D	. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1,2 and 33</u> is/are pending in the ap	pplication.					
4a) Of the above claim(s) is/are without	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1,2,33</u> is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	d/or election requirement					
o) Claim(s) are subject to restriction and	a/or creation requirement.					
Application Papers						
9)☐ The specification is objected to by the Exam						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119		440() () ()				
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☑ All b) ☐ Some * c) ☐ None of:						
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)		ummary (PTO-413)				
2) De Notice of Draftsperson's Patent Drawing Review (PTO-948)	_, 🗀)/Mail Date formal Patent Application (PTO-152)				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/ Paper No(s)/Mail Date 	6) Other:					

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DETAILED ACTION

Response to Request for Reconsideration

Withdrawn Rejections

1. The 35 U.S.C. 102(b) rejections using Shiga and Gandini, paragraphs 5-6 in the Office action dated 09/20/05, have been withdrawn due to Applicant's statement, in the remarks section dated 12/16/05, that Applicant's polymer main chain does not contain any portion which is similar to the drawn out polymers of Shiga and Gandini.

Rejections Repeated

2. The 35 U.S.C. 102(a) rejections as being anticipated by Yamamoto and Tomioka, have been repeated for the same reasons previously of record in the Office action dated 09/20/05.

Response to Arguments

- 3. Applicant's arguments regarding the validity of Yamamoto and Tomioka as prior art, filed 12/16/05, have been fully considered but they are not persuasive.
- 4. Applicant argues that formula (IX) in Yamamoto, shown on the next page, does not correspond to species A of Applicant shown below.

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Applicant is respectfully apprised that formula (IX) of Yamamoto, shown below, does indeed correspond to species A of Applicant.

5. Applicant argues that Yamamoto only discloses a polymer wherein not all the substituents are simultaneously H, as taught by Yamamoto in the abstract. However, formula (IX) is undeniably disclosed by Yamamoto.

Applicant is respectfully apprised that the use of patents as references is not limited to what the patentees describe as their own inventions or to the problems with which they are concerned. They are part of the literature of the art, relevant for all they contain. See MPEP 2123 [R-3].

6. Applicant argues that when chemical formula 3 of Tomioka is drawn out, it corresponds to the formula shown below,

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which does not correspond to the species of polymer of Applicant, in the case of b=c=0, shown below.

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Applicant is respectfully apprised that chemical formula (3) of Tomioka is a stilbene diamine, which along with 4,4'-diaminodiphenylmethane, is reacted in an equal mole ratio with pyromellitic acid anhydride to form a polyamic acid (column 18, lines 35-50), which would look like the representation shown below:

-OCHOOC-ArCOOH-CO-NH-[-Ar-CH=CH-Ar-]_a-[NH-CO-HOOCArCOOH-CONH]_b-[Ar-CH₂-Ar-]_c-NH-; a>0, b>0, c>0. Therefore, while the polymer of Tomioka does not look like the polymer of Applicant in the case of b=c=0, it does look like the polymer of Applicant in the case of a>0, b>0, c>0.

7. Applicant argues that Tomioka merely discloses that the polyamic acid is used in preparation of the liquid crystal composition.

Applicant is respectfully apprised that Tomioka teaches that the polyamic acid is used as an alignment layer (column 18, lines 34-35), specifically a photo-alignment layer (polarized light, column 18, lines 50-56).

8. Applicant argues that chemical formula (3) of Tomioka does not contain any – NHCO- group.

Applicant is respectfully apprised that the polyamic acid is formed from the stilbene diamine (formula 3 of Tomioka) and 4,4'-diaminodiphenylmethane reacted in equal mole ratio with pyromellitic acid anhydride (column 18, lines 35-50), in a polycondensation reaction which forms the -NHCO- linkages between the amine and acid anhydride components. See US 4,4169,73 as a teaching reference.

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Conclusion

9. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to Sow-Fun Hon whose telephone number is (571)272-1492. The examiner can normally be reached Monday to Friday from 10:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached at (571)272-1498. The fax phone number for the organization where this application or proceeding is assigned is (571)273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

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Sow-Fun Hon

S. Hon.

02/13/06

HAROLD PYON
SUPERVISORY PATENT EVANABLE

NTENT EXAMINER 2/14/

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